AUTHOR INDEX

Abrecht, D.G. (Darwin, N.T., Australia) and Bristow, K.L. (Townsville, Qld., Australia)
Maize seedling response to the soil environment at varying distances from a mulched soil–bare soil boundary 205
Al-Darby, A.M., Mustafa, M.A., Al-Omran, A.M. and Mahjoub, M.O. (Riyadh, Saudi Arabia)
Effect of wheat residue and evaporative demands on intermittent evaporation 105
Allmaras, R.R. (St. Paul, MN, U.S.A.)
Book Review of *Soil Fertility and Organic Matter as Critical Components of Production Systems*, edited by R.F. Follett, J.W.B. Stewart and C.V. Cole 177
Al-Omran, A.M., *see* Al-Darby, A.M. et al.
Ball, B.C., Bickerton, D.C. and Robertson, E.A.G. (Midlothian, Gt. Britain)
Straw incorporation and tillage for winter barley: soil structural effects 309
Bansal, R.K., *see* Mayande, V.M. et al.
Barber, R.G., *see* Barbosa, L.R. et al.
Barber, R.G., Herrera, C. and Diaz, O. (Santa Cruz, Bolivia)
Compaction status and compaction susceptibility of alluvial soils in Santa Cruz, Bolivia . 153
Barbosa, L.R., Diaz, O. and Barber, R.G. (Santa Cruz, Bolivia)
Effects of deep tillage on soil properties, growth and yield of soya in a compacted Ustochrept in Santa Cruz, Bolivia 51
Bickerton, D.C., *see* Ball, B.C. et al.
Boone, F.R. (Wageningen, The Netherlands)
Book review of *Cropping Strategies for Efficient Use of Water and Nitrogen*, edited by W.L. Hargrove 179
Bristow, K.L., *see* Abrecht, D.G. and Bristow, K.L.
Bruand, A., *see* Coulon, E. and Bruand, A.
Burger, P.W., *see* Sallaway, M.M. et al.
Busscher, W.J. (Florence, SC, U.S.A.) and Sojka, R.E. (Kimberly, ID, U.S.A.)
Comparison of log transformed and scaled cone indices 329
Carter, M.R. (Charlottetown, P.E.I., Canada)
Relationship of strength properties to bulk density and macroporosity in cultivated loamy sand to loam soils 257
Book review of *Biological Interactions in Soil*, edited by C.A. Edwards, B.R. Stinner, D Stinner ad S. Rabatin 307
Book review of *Nitrogen Efficiency in Agricultural Soils*, edited by D.S. Jenkinson and K.A. Smith 187
Chan, K.Y. (Rydalmere, N.S.W., Australia) and Mead, J.A. (Cowra, N.S.W., Australia)
Improving seedbed conditions using a winged sowing point for direct drilling of wheat 337
Chapa Guerrero, J.R., *see* Oleschko, K. and Chapa Guerrero, J.R.
Clothier, B.E., *see* Sauer, T.J. et al.
Coulon, E. and Bruand, A. (Olivet, France)
Effects of compaction on the pore space geometry in sandy soils 137
Crossley, Jr, D.A., *see* Perdue, J.C. and Crossley, Jr, D.A.
Cullum, R.F. (Fairbanks, AK, U.S.A.), Graham, W.D. and Gaultney, L.D. (West Lafayette, IN, U.S.A.)
Tractor instrumentation for tillage research in remote areas 169

Curl, E.A., *see* Rickerl, D.H. et al.
Daniel, T.C., *see* Sauer, T.J. et al.
Dannowski, M., *see* Petelkau, H. and Dannowski, M.
De Lima, J.L.M., Eppink, L.A.A. and van der Molen, W.H. (Wageningen, The Netherlands)
A kinematic overland flow model to determine depression storage of tilled surfaces 65
Diaz, O., *see* Barbosa, L.R. et al.
see Barber, R.G. et al.
Eppink, L.A.A., *see* de Lima,J.L.M. et al.
Fausey, N.R., *see* Lal, R. et al.
Gaultney, L.D., *see* Cullum, R.F. et al.
Graham, W.D., *see* Cullum, R.F. et al.
Hadas, A. (Bet-Dagan, Israel)
Book review of*The Soil as a Reactor - Modelling Processes in the Soil*, by J. Richter 180
Book review of *Impact of Water and External Forces on Soil Structure*, edited by J. Drescher, R. Horn and M. de Boodt 182
Book review of*Tillage - New Directions in Australian Agriculture*, edited by, P.S. Cornish and J.E. Pratley 186
Book review of *Rainfall Simulation Runoff and Soil Erosion*, edited by J. de Ploey 190
Journal review of *Journal of Production Agriculture* 192
Book review of *Effect of Management Practices on Soil Physical Properties*, edited by K.M. Coughlan and P.N. Truong 393
Journal review of *Arid Soil Research and Rehabilitation*, edited by J. Skujins 391
Journal review of *Tools and Tillage - a Journal on History of Implements of Cultivation and Other Agricultural Processes*, edited by G. Lerche and A. Fenton 392
Harrison, H.P. and Licsko, Z.J. (Edmonton, AB, U.S.A.)
Soil reacting forces for models of three bentleg plows 125
Hartge, K.H., *see* Horn, R. and Hartge, K.H.
Herman, M. (Hrusovany, Czechoslovakia)
Effect of tillage systems and crop sequence on the rhizosphere microflora of winter wheat 297
Herrera, C., *see* Barber, R.G. et al.
Horn, R. (Kiel, F.R.G.) and Hartge, K.H. (Hannover, F.R.G.)
Effects of short-time loading on soil deformation and strength of an ameliorated Typic Paleustalf 247
Kharwara, P.C., *see* Sharma, P.K. et al.
Lal, R., Logan, T.J. and Fausey, N.R. (Columbus, OH, U.S.A.)
Long-term tillage effects on a Mollic Ochraqualf in north-west Ohio. III. soil nutrient profile 371
Licsko, Z.J., *see* Harrison, H.P. and Licsko, Z.J.
Logan, T.J., *see* Lal, R. et al.
Mahjoub, M.O., *see* Al-Darby, A.M. et al.
Malhi, S.S., *see* Nyborg, M. and Malhi, S.S.
Malhi, S.S. and Nyborg, M. (Edmonton, Alta., Canada)
Evaluation of methods of placement for fall-applied urea under zero tillage 383
Mayande, V.M., Bansal, R.K. and Smith, G.D. (Patancheru, AP, India)
A comparison of moldboard plows for dry season tillage of Vertisols 349
Mayer, D., *see* Sallaway, M.M. et al.
McKyes, E. (Quebec, Canada)
Book review of *Impact of Water and External Forces on Soil Structure*, edited by J. Drescher, R. Horn and M. de Boodt 184

Mead, J.A., *see* Chan, K.Y. and Mead, J.A.
Moolman, J.H. and van Huyssteen, L. (Stellenbosch, South Africa)
A geostatistical analysis of the penetrometer soil strength of a deep ploughed soil 11
Mustafa, M.A., *see* al-Darby, A.M. et al.
Nyborg, M., *see* Malhi, S.S. and Nyborg, M.
Nyborg, M. (Edmonton, Alta., Canada) and Malhi, S.S. (Lacombe, Alta., Canada)
effect of zero and conventional tillage on barley yield and nitrate nitrogen content, moisture and temperature of soil in north-central Alberta 1
Ojeniyi, S.O. (Akure, Nigeria)
Effect of bush clearing and tillage methods on soil physical and chemical properties of humid tropical Alfisols 269
Oleschko, K. (Montecillo, Mexico) and Chapa Guerrero, J.R. (Chapingo, Mexico)
Structural dynamics of a mollic Andosol of Mexico under tillage 25
Perdue, J.C. and Crossley, Jr., D.A (Athens, GA, U.S.A.)
Seasonal abundance of soil mites (Acari) in experimental agroecosystems: effects of drought in no-tillage and conventional tillage 117
Petelkau, H. and Dannowski, M. (Muncheburg, G.D.R.)
Effect of repeated vehicle traffic in traffic lanes on soil physical properties, nutrient uptake and yield of oats 217
Rasmussen, K.J., *see* Schjonning, P. and Rasmussen, K.J.
Rickerl, D.H. (Brookings, SD, U.S.A.), Curl, E.A. and Touchton, J.T. (Auburn, AL, U.S.A.)
Tillage and rotation effects on Collembola populations and *Rhizoctonia* infestation 41
Robertson, E.A.G., *see* Ball, B.C. et al.
Sallaway, M.M. (Bundaberg, Qld., Australia), Yule, D.F. and Mayer, D. (Rockhampton, Qld., Australia) and Burger, P.W. (Emerald, Qld., Australia)
Effects of surface management on the hydrology of a vertisol in semi-arid Australia 227
Sauer, T.J., Daniel, T.C. (Madison, WI, U.S.A.) and Clothier, B.E. (Palmerston North, New Zealand)
Surface measurements of the hydraulic properties of a tilled and untilled soil 359
Schjønning, P. (Tinglev, Denmark)
Long-term reduced cultivation. II. Soil pore characteristics as shown by gas diffusivities and permeabilities and air-filled porosities 91
Schjønning, P. and Rasmussen, K.J. (Tinglev, Denmark)
Long-term reduced cultivation. I. Soil strength and stability 79
Sharma, P.K., Kharwara, P.C. and Tewatia, R.K. (Simour, India)
Residual soil moisture and wheat yield in relation to mulching and tillage during preceding rainfed crop 279
Smith, G.D., *see* Mayande, V.M. et al.
Sojka, R.E., *see* Busscher, W.J. and Sojka, R.E.
Terpstra, R. (Wageningen, The Netherlands)
Formation of new aggregates and weed seed behaviour in a coarse- and in a fine-textured loam soil. A laboratory experiment 285
Tewatia, R.K., *see* Sharma, P.K. et al.
Touchton, J.T., *see* Rickerl, D.H. et al.
Van der Molen, W.H., *see* de Lima, J.L.M. et al.
Van Huyssteen, L., *see* Moolman, J.H. and van Huyssteen, L.
Yule, D.F., *see* Sallaway, M.M. et al.